

02/13/01 9:16 a

Assume 2 sequences with cutsets given by:

$A * B * C$	(CDF)	$X * Y * Z$	(CDF/LERF)
$A * B * D * E$	(CDF)	$X * Y * U$	(CDF/LERF)
$A * D * U$	(CDF/LERF)	$X * D * E$	(CDF/LERF)

If D is failed:

$$\Delta CDF = (1-D) * [A * B * E + A * U + X * E]$$

$$\Delta LERF = (1-D) * [A * U + X * E]$$

If U is failed:

$$\Delta CDF = (1-U) * [A * D + X * Y]$$

$$\Delta LERF = (1-U) * [A * D + X * Y]$$

If D is failed and U is failed:

$$\Delta CDF = (1-D) * [A * B * E + X * E] + (1-U) * X * Y + (1-D) * (1-U) * A$$

$$\Delta LERF = (1-D) * X * E + (1-U) * X * Y + (1-D) * (1-U) * A$$

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